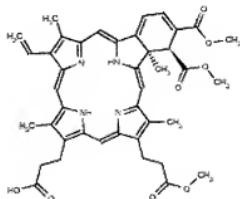


EXHIBIT A



Full Record

Verteporfin [USAN:INN]
RN: 129497-78-5Structure
Descriptors

InChI

InChI=1/C41H42N4O8/c1-9-23-20(2)29-17-34-27-13-10-26(39(49)52-7)38(40(50)53-8)41(27,5)35(45-34)19-30-22(4)25(12-15-37(48)51-6)33(44-30)18-32-24(11-14-36(46)47)21(3)28(43-32)16-31(23)42-29/h9-10,13,16-19,38,43,45H,1,11-12,14-15H2,2-8H3,(H,46,47)/b31-16-,33-18-,34-17-,35-19-/f38-,41+/m0/s1

[Download](#) | [View Full InChI](#)

Smiles

C=1(CCC(OC)=O)c2cc3c(c(c(c4nc(cc5C=6[C@@]([C@@H](C(C=CC6)C(OC)=O)C(=O)OC)(c([nH]5)cc(n2)C1C(C)C(C)=C4C=C)[nH]3)CCC(O)=O)Download

Names and
Synonyms

Name of Substance

Verteoporfin

Verteoporfin [USAN:INN]

Synonyms

(-)-trans-3,4-Dicarboxy-4a-dihydro-4a,8,14,19-tetramethyl-18-vinyl-23H,25H-benzo(b)porphine-9,13-dipropionic acid, 3,9-trimethyl ester mixture with (+)-trans-3,4-dicarboxy-4a-dihydro-4a,8,14,19-tetramethyl-18-vinyl-23H,25H-benzo(b)porphine-9,13-dipropionic acid, 3,4,13-trimethyl ester

CL 318,952

UNII-0X9PA28K43

Verteoporfin

Visudyne

Systematic Name

23H,25H-Benz(b)porphine-9,13-dipropanoic acid, 18-ethenyl-4,4a-dihydro-3,4-bis(methoxycarbonyl)-4a,8,14,19-

tetramethyl-, monomethyl ester, trans-

Registry Numbers	CAS Registry Number [i] 129497-78-5
	System Generated Number [i] 0129497785

Classification Codes	Classification Code [i] Antineoplastic [i] Dermatologic Agents [i] Photosensitizing agents [i] Radiation-Sensitizing Agents
----------------------	--

Formulas	Molecular Formula [i] C41-H42-N4-O8
----------	---

Notes	Note [i] Used in PHOTOCHEMOTHERAPY to treat wet type MACULAR DEGENERATION.
-------	--

Locators	File Locator
ClinicalTrials.gov	[i] NIH ClinicalTrials.gov
DailyMed	[i] NLM/FDA Drug Labelling
MeSH	[i] Medical Subject Headings File
PubChem	[i] PubChem
PubMed AIDS	[i] AIDS Citations from PubMed
PubMed Cancer	[i] Cancer Citations from PubMed
PubMed Toxicology	[i] Toxicology Citations From PubMed
PubMed	[i] Biomedical Citations From PubMed
TOXLINE	[i] NLM TOXLINE on TOXNET
MedlinePlusAll	[i] Search Consumer Health Info

Internet Locator	
CTD	[i] Comparative Toxicogenomics Database
DrugDigest	[i] Drug Digest
Drugs@FDA	[i] FDA Drug Database
USA.gov	[i] USA.gov Search Engine



News

SIS Home | Site | About Us | Contact

Full Record**Ranibizumab [USAN]**
RN: 347396-82-1**No Structure**

Structure Descriptors No descriptors found for this chemical.

Names and Synonyms **Name of Substance**
① Ranibizumab [USAN]

Synonyms
① Lucentis
① Ranibizumab
① UNII-ZL1R02VT79
① rhuFab V2

Systematic Name
① Immunoglobulin G1, anti-human vascular endothelial growth factor) Fab fragment (human-mouse monoclonal rhuFAB V2 gamma1 chain), disulfide with human-mouse monoclonal rhuFAB V2 light chain

Registry Numbers **CAS Registry Number**
① 347396-82-1

System Generated Number
① 0347396821

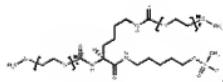
Classification Codes **Classification Code**
① Treatment of age-related macular degeneration

Formulas	Molecular Formula ① Unspecified	
Notes	Note ① Ranibizumab (rhuFab V2; Lucentis, Genentech, South San Francisco, CA) is a humanized monoclonal antibody fragment designed to bind all forms of VEGF, thereby blocking vessel permeability and angiogenesis in neovascular age-related macular degeneration	
Locators	File Locator ClinicalTrials.gov DailyMed MedlinePlusDrug MeSH PubMed AIDS PubMed Cancer PubMed Toxicology PubMed TOXLINE MedlinePlusAll Internet Locator DrugDigest Drugs@FDA USA.gov	① NIH ClinicalTrials.gov ① NLM/FDA Drug Labelling ① Consumer Drug Information ① Medical Subject Headings File ① AIDS Citations from PubMed ① Cancer Citations from PubMed ① Toxicology Citations From PubMed ① Biomedical Citations From PubMed ① NLM TOXLINE on TOXNET ① Search Consumer Health Info ① Drug Digest ① FDA Drug Database ① USA.gov Search Engine

U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894,
National Institutes of Health, Department of Health & Human Services
[Copyright and Privacy Policy](#), [Freedom of Information Act](#), [Accessibility](#)
Customer Service: tehp@teh.nlm.nih.gov.



Full Record

Pegaptanib sodium [USAN]
RN: 222716-86-1Structure
Descriptors

InChI

InChI=1S/C20H40N3O10P.Na/c1-29-13-15-31-19(25)22-11-7-5-9-17(23-20(26)32-16-14-30-2)18(24)21-10-6-4-8-12-33-34(3,27)28/h17H,4-16H2,1-3H3,(H,21,24)(H,22,25)(H,23,26)(H,27,28);q+1/p-1/t17-/m0/s1

[Download](#) | [View Full InChI](#)

Names and
Synonyms

Name of Substance

Pegaptanib sodium [USAN]

Synonyms

5'-Ester of (2'-deoxy-2'-fluoro)C-Gm-Gm-A-A-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)C-Am-Gm-(2'-deoxy-2'-fluoro)U-Gm-Am-(2'-deoxy-2'-fluoro)U-Gm-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)U-Am-(2'-deoxy-2'-fluoro)U-Am-(2'-deoxy-2'-fluoro)C-Am-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)C-Gm-(3'-3')-dT with alpha,alpha'-((1S)-1-(5-(phosphonoxy)pentyl)carbamoyl)pentane-1,5-diyl bis(iminocarbonyl)bis(omega-methoxypoly(oxyethane-1,2-diyl)) octacosasodium salt. Molecular weight is approximately 50,000 daltons

EYE 001

EYE001

Macugen

NX 1838

NX1838

Pegaptanib octasodium

Pegaptanib sodium

UNII-3HP012Q0FH

	Systematic Name ① RNA, ((2'-deoxy-2'-fluoro)C-Gm-Gm-A-A-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)C-Am-Gm-(2'-deoxy-2'-fluoro)U-Gm-Am-Am-(2'-deoxy-2'-fluoro)U-Gm-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)U-Am-(2'-deoxy-2'-fluoro)U-Am-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)C-Gm-(3'-3')-dT), 5'-ester with alpah-(4,12-dioxa-6(((5'-phosphonoxy)pentyl)amino)carbonyl)-3,13-dioxa-5,11-diaza-1,15-pentadecanediy)bis(omega-methoxypoly(oxy-1,2-ethanediyl)), sodium salt
Registry Numbers	CAS Registry Number ① 222716-86-1
	Other Registry Number ① 250689-71-5
	System Generated Number ① 0222716861
Classification Codes	Classification Code ① Treatment of age-related macular degeneration disease [anti-VEGF aptamer]
Formulas	Molecular Formula ① C294-H342-F13-N107-Na28-O188-P28-(C2-H4-O)n ② Unspecified
Notes	Note ① A 2-base ribonucleic acid aptamer covalently linked to two branched 20-kD polyethylene glycol moieties to block the activity of extracellular VEGF, specifically the 165-amino-acid isoform (VEGF165); for treatment of neovascular age-related macular degeneration.
Locators	File Locator ClinicalTrials.gov ① NIH ClinicalTrials.gov DailyMed ① NLM/FDA Drug Labelling MedlinePlusDrug ① Consumer Drug Information MeSH ① Medical Subject Headings File PubChem ① PubChem PubMed ① Biomedical Citations From PubMed PubMed AIDS ① AIDS Citations from PubMed PubMed Toxicology ① Toxicology Citations From PubMed TOXLINE ① NLM TOXLINE on TOXNET MedlinePlusAll ① Search Consumer Health Info
	Internet Locator DrugDigest ① Drug Digest Drugs@FDA ① FDA Drug Database

USA.gov

 USA.gov Search Engine

[U.S. National Library of Medicine](#), 8600 Rockville Pike, Bethesda, MD 20894,
[National Institutes of Health](#), [Department of Health & Human Services](#)
[Copyright and Privacy Policy](#), [Freedom of Information Act](#), [Accessibility](#)
Customer Service: tehip@teh.nlm.nih.gov